## UTILITY **PATENT APPLICATION TRANSMITTAL**

678-1236 (P10806) Attorney Docket No. Chan-Soo HWANG, et al. First Inventor Transmitter And Receiver Provided In Wireless... EV333230384US

Express Mail Label No.

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS				ADDRESS TO: Mail Stop Patent Application Commissioner for Patents, P. O. Box 1450				
See MPEP chapter 600 concerning utility patent application contents.				Alexandria, VA 22313-1450				
Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27.				7. CD-ROM or CD-R in duplicate, large table or Computer Program ( <i>Appendix</i> )  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)				
3. Specification (preferred arrangement)	[Total	Pages 27 ]		a. Computer Readable Form (CRF)				
- Descriptive title	-	n		b. Specification Sequence Listing on:				
<ul> <li>Cross Reference</li> <li>Statement Reg</li> </ul>					_	for CD-R		es): or
- Reference to se	equence listing,	a table,		ii. paper				
or a computer <sub>l</sub> - Background of	the Invention			c. Statements verifying identity of above copies				
- Brief Summary - Brief Description	of the Invention	n nas <i>(if filed</i> )		ACCOMPANYING APPLICATION PARTS				
- Detailed Descr		.go (/ou)		9.	Assignment Pap	ers (cover	sheet &	document(s))
- Claim(s) - Abstract of the	Disclosure			10.	37 CFR 3.73(b)			Power of
4. V Drawing(s) (35 L	15 ( 112) [	Total Shoots 7	٦,	11.	(when there is a English Transla	•	•	→ Attorney applicable)
	, ,		_ , _ ,	12.	Information Disc	losure	Ė	Copies of IDS
5. Oath or Declaration	•	Total agos [7	] ]		Statement (IDS)		, "	☐ Citations
Copy from a	uted (original or a prior application	on (37 CFR 1.63 (d))		13. <b>L</b>	Preliminary Am		MPFP	503)
b. [] (for continua	ation/divisional v	with Box 18 compléted	d)	14.	(Should be spec	ifically iten	nized)	,
	ION OF INV			15.	Certified Copy of (if foreign priorit	of Priority D y is claime	locume d)	ent(s)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR					16. Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35			
	and 1.33(b).			-				
6. Application Data	or its equivalent. Ck. \$770.00 (filing fee)  17.  Other: Ck. \$40.00 (recording fee)							
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,								
or in an Application Data Sh	eet under 37 CF Divisional	FR 1.76: Continuation-in-part	(CID)		f malas anadisastina bla s			
Prior application information:	Examiner_	_	(Cir)	Ü	f prior application No.:  Group Art Unit:			
For CONTINUATION OR DIVIS	IONAL APPS onl	ly: The entire disclosure			ication, from which an			
Box 5b, is considered a part o The incorporation <u>can only</u> be								rated by reference.
		19. CORRESP	ONDEN	E ADD	RESS			
Customer Number or Bar Code Label  (Insert Customer No. or Attach bar code label here)  Or Correspondence address below								
Name	Name Paul J. Farrell, Esq.							
	DILWORTH & BARRESE, LLP							
Address	333 Earle Ovington Blvd.							
City	Uniondale	ondale S		tate	New York	Zip	Code	11553
Country	U.S.A Telepi		one	(516) 228-8484	F	ax	(516) 228-8516	
Name (Print/Type)	Paya 7. Farre			Reai	stration No. (Attorr	ev/Aaent	33,4	94
	Mulle	Fa.001)					4	ber 24, 2003
Signature	CE	RTIFICATION UNDER	37 C F R	8 1 10	<del></del>	Date	Joen	,001 27, 2003

I hereby certify that this correspondence and the documents referred to as enclosed are being deposited with the United States Postal Service on date below in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV332230384US addressed to: Mail State Patent Application, Commissioner for Patents, P.O. Box 1450,

Alexandria,. VA 22313-1450.

Dated: October 24, 2003

(Name) Douglas M. Owens III

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.								
FEE TRANSMITTA	•	Complete if Known						
FEE INANSMITTA	L	Application Number			er			
for FY 2003		Filing	Date			Concurrent herewith		
Patent fees are subject to annual revision.		First I	Named	Inver	ntor	Chan-Soo HWANG, et al.		
		Exam	iner N	ame				
Applicant claims small entity status. See 37 CFR 1.27		Art Uı	nit					
TOTAL AMOUNT OF PAYMENT (\$) 810.00		Attorr	ney Do	cket N	lo.	678-1236 (P10806)		
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)						
Check Credit card Money Other None	3. /	3. ADDITIONAL FEES						
Deposit Account:	<u>Large</u>	Large Entity   Small Entity						
Deposit 04 1121	Fee Cod	Fee e (\$)	Fee Code	Fee (\$)		Fee Description	Fee Paid	
Account Number	105		2051	65	Surch	arge - late filing fee or oath	1001010	
Deposit Account Dilworth & Barrese LLP	1052	2 50	2052	25		arge - late provisional filing fee or sheet		
Name The Commissioner is authorized to: (check all that apply)	1053	3 130	1053	130		English specification		
Charge fee(s) indicated below Credit any overpayments	1812	2 2,520	1812	2,520	For fil	ing a request for ex parte reexamination	<u> </u>	
Charge any additional fee(s) during the pendency of this application	1804	920*	1804	920*		esting publication of SIR prior to iner action		
Charge fee(s) indicated below, except for the filing fee	180	5 1,840*	1805	1,840*	Requ	esting publication of SIR after		
to the above-identified deposit account.	425		2254	55		niner action		
FEE CALCULATION	125 <sup>-</sup> 125 <sup>-</sup>		2251			nsion for reply within first month nsion for reply within second month		
1. BASIC FILING FEE	1253		2253			nsion for reply within third month		
Large Entity Small Entity Fee Fee Fee Fee Paid Fee Paid		1,480	2254			nsion for reply within fourth month		
Code (\$) Code (\$)  1001 770 2001 385 Utility filing fee	125	5 2,010	2255	1,005		nsion for reply within fifth month		
1002 340 2002 170 Design filing fee 770	140	1 330	2401	165	Notic	e of Appeal		
1003 530 2003 265 Plant filing fee	1402	2 330	2402	165	Filing	a brief in support of an appeal		
1004 770 2004 385 Reissue filing fee	1403	3 290	2403	145	Requ	est for oral hearing		
1005 160 2005 80 Provisional filing fee	145	1 1,510	1451	1,510	Petiti	on to institute a public use proceeding		
SUBTOTAL (1) (\$) 770.00	1452	2 110	2452	55	Petiti	on to revive - unavoidable	<u> </u>	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	145	3 1,330	2453	665	Petit	on to revive - unintentional		
Fee from	150	1 1,330	2501	665	-	y issue fee (or reissue)		
Total Claims $13$ $20^{44} = 0$ $13.00$ $18.00$ $18.00$			2502	240		gn issue fee	<u> </u>	
Independent $\begin{bmatrix} 2 \\ \end{bmatrix}$ $\begin{bmatrix} 3 \\ 1 \end{bmatrix}$ $\begin{bmatrix} 7 \\ $	1500 1460		2503	320 130		t issue fee	$\vdash$	
Claims 290 = 0	180		1460			ions to the Commissioner essing fee under 37 CFR 1.17(q)	<del></del>	
Large Entity   Small Entity		30 3 180	1807	50 180		nission of Information Disclosure Stmt		
Fee Fee Fee Fee Description Code (\$)	802		8021	40	Reco	rding each patent assignment per	40	
1202 18 2202 9 Claims in excess of 20				-	prope	erty (times number of properties)		
1201 86 2201 43 Independent claims in excess of 3	180	9 770	2809	385		g a submission after final rejection CFR 1.129(a))		
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385		each additional invention to be	]	
1204 86 2204 43 ** Reissue independent claims over original patent	180	1 770	2801	385		nined (37 CFR 1.129(b)) est for Continued Examination (RCE)		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	180		1802	900	Requ	lest for expedited examination design application		
SUBTOTAL (2) (\$) 0.00	er fee (sp					<u> </u>		
**or number previously paid, if greater: For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00								

SUBMITTED BY				(Complete (	if applicable)
Name (Print/Type)	Paut 3. Farpell	Registration No. (Attorney/Agent)	33,494	Telephone	(516) 228-8484
Signature	Kauffaull			Date	October 24, 2003

CERTIFICATION UNDER 37 C.F.R. §1.10

I hereby certify that this correspondence and the documents referred to as enclosed are being deposited with the United States Postal Service on date below in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV333230384US addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: October 24, 2003

\*\*or number previously paid, if greater; For Reissues, see above

Atty. Docket No. 678-1236 (P10806)

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application
Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

### UTILITY APPLICATION DATA SHEET UNDER 37 C.F.R. §1.76

-						
Sir:						
Transmitted	herewith for filing is the patent application of					
Inventor(s):	Chan-Soo HWANG, Seung-Hoon NAM, Yung Soo KIM and Jae-Hak CHUNG					
For:	or: TRANSMITTER AND RECEIVER PROVIDED IN WIRELESS COMMUNICATION SYSTEM USING FOUR TRANSMITTING ANTENNAS					
Enclosed are	Enclosed are:					
[X] <u>21</u>						
[X] <u>1</u>	(] 1 page(s) of Abstract					
[X] <u>5</u>	K]5 page(s) of claims					
X]7 sheets of drawings [X] formal [] informal						
X] page(s) of Declaration and Power of Attorney						
ASSIGNEE NAME: SAMSUNG ELECTRONICS CO., LTD.						
ASSIGNEE	RESIDENCE: KYUNGKI-DO, KOREA					
CERTIFICATION UNDER 37 C.F.R. § 1.10						

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date October 24, 2003, in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV333230384US addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22312450.

[]	This application claims the benefit under 35 U.S.C. §119(e) of U. Provisional Application(s) No(s).:						
	APPLICATION NO(S)	.:	FILING DATE				
[ <b>X</b> ]	Certified copy of appli	cation					
Cou	ntry	Appln. No.	Filed				
REPUBLIC OF KOREA		1454/2003	<b>JANUARY 9, 2003</b>				
from	which priority under Title	e 35 United States C	Code, § 119 is claimed				
[]	is enclosed.	·					
[ <b>X</b> ]	will follow.						
	041 0111 471011	OF LITH ITY ADDL I	CATION FEE				

## CALCULATION OF UTILITY APPLICATION FEE

For	Number Filed	Number Extra	Rate	Basic Fee \$770.00		
TOTAL CLAIMS	13	0	x 18 =	\$.00		
INDEPENDENT CLAIMS	2	0	x 86 =	\$.00		
[] Multiple Dep. Claim			290	\$.00		
			TOTAL \$770.00			

Verified Statement of "Small Entity" Status Under 37 C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith §.

- [X] The amount of \$40.00 for recording the attached Assignment is enclosed as a separate check.
- [X] A Check in the amount of \$770.00 to cover the filing fee is attached.
- [] Charge fee to Deposit Account No. 04-1121. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

[X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and 1.17, at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. **04-1121**. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. **04-1121** therefor. **TWO** (2) **COPIES OF THIS SHEET ARE ENCLOSED.** 

Respectfully submitted,

Date: October 24, 2003

Paul J. Fatrell Reg. No. 33,494

Attorney for Applicant(s)

### **DILWORTH & BARRESE, LLP**

333 Earle Ovington Blvd. Uniondale, NY 11553 Tel. No. (516) 228-8484 Fax No. (516) 228-8516

PJF/DMO/lah